

News release

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Raytheon completes Command, Control and Communications software for NPOESS Preparatory Project

AURORA, Colo., (Jan. xx, 2005)—Raytheon Company (NYSE: RTN) has completed a major development milestone on the National Polar-orbiting Operational Environmental Satellite System (NPOESS) program. The successful qualification testing of the third software increment for the Command, Control, and Communications Segment (C3S) is a significant step towards declaration of ground readiness in preparation for the launch of the NPOESS Preparatory Project (NPP) satellite.

The C3S software provides a highly automated and integrated suite of eight subsystems at the new NOAA Satellite Operations Facility (NSOF), including Mission Management, Command and Control, Enterprise Management, and Data Monitoring and Recovery. The demanding NPOESS data latency and availability requirements are met with a globally distributed architecture with 21 operational sites in 12 countries. The NPOESS operators will manage and control these assets from the NSOF.

“The NPOESS program is very pleased that more than 1.7 million lines of code and 40 racks of equipment have been delivered on time, on cost, and meeting our specifications,” said John Cunningham, director of the NPOESS Integrated Program Office. “Software cost growth has been a particular challenge for the satellite industry and the carefully planned reuse of existing code, designed in from the beginning, has allowed this outstanding performance. Congratulations to Raytheon on a job very well done.”

The C3S software was developed in three increments, over two years, using an iterative development methodology supported by mature CMMI-level 3 compliant processes. The cost-effective and on-time development was facilitated by the use of Raytheon Eclipse™ satellite command and control and Equinox™ mission management product lines, and operational Raytheon ground systems. This reuse yielded a labor cost savings to the government of 80%, and significantly reduced the schedule risk inherent in a large-scale software development.

Raytheon has responsibility for development of the NPOESS ground segments. In addition to C3S, Raytheon is developing the Interface Data Processing Segment (IDPS). Utilizing the same development processes, IDPS has completed qualification of the second major software build. IDPS ingests the raw data from the four NPP sensors and generates over 25 environmental products required for vital weather analyses and forecasts to support military operations, civil applications and scientific research. Raytheon's contribution to the NPOESS program will make possible more accurate and timely global weather and environmental data production.

Raytheon is part of the Northrop Grumman Space Technology NPOESS team. Northrop Grumman Space Technology leads the team as the prime contractor and has overall responsibility for the program development effort.

Raytheon Company (NYSE: RTN), with 2003 sales of \$18.1 billion, is an industry leader in defense and government electronics, space, information technology, technical services, and business and special mission aircraft. With headquarters in Waltham, Mass., Raytheon employs 78,000 people worldwide.